15 April 2008

Mr. Richard A. Boyer Safety Manager The Miriam Hospital 164 Summit Avenue Providence, RI 02906

Dear Mr. Boyer:

The Department of Environmental Management, Office of Air Resources has reviewed and approved your application for the installation of fuel burning equipment at your facility located at 164 Summit Avenue, Providence, RI.

Enclosed is a minor source permit issued pursuant to our review of your application (Approval Nos. 2027-2029).

Based on the representations made in this minor source permit application, the Office of Air Resources has determined that Emissions Cap No. 06-49 issued on 3 July 2006 will need to be revised. Please be advised that effective from the date of issuance of this permit, the quantity of residual fuel oil combusted at your facility shall be limited to 742,500 gallons or less for any consecutive 12-month period. This revised limitation on residual fuel oil usage will be included in a revised emissions cap. Modification of an emissions cap is subject to public comment. We will prepare a draft emissions cap and provide you a copy for your review and comment prior to publishing public notice.

During the course of our review of your application, we determined that the two 1,502-HP emergency generators were installed in 2004 and the 2,151-HP emergency generator was installed in 1989. The Miriam Hospital failed to obtain a preconstruction permit prior to the installation of this equipment as required by RI Air Pollution Control Regulation No. 9.

Be advised that issuance of this permit does not limit or otherwise preclude the RI DEM from pursuing enforcement actions to address the violations stated above.

If there are any questions concerning this permit, please contact me at 222-2808, extension 7011.

Sincerely,

Douglas L. McVay Associate Supervising Engineer Office of Air Resources

cc: Providence Building Official

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR RESOURCES

MINOR SOURCE PERMIT

THE MIRIAM HOSPITAL

APPROVAL NOs. 2027-2029

Pursuant to the provisions of Air Pollution Control Regulation No. 9, this minor source permit is issued to:

lar Model 3508B DITA, 1,502-HP
Todel 3516 DITA, 2,151-HP unit
e fired with fuel oil containing
lence
nance and shall remain in effect untiles permit does not relieve <i>The Miriam</i> ederal air pollution control rules and of this equipment shall be subject to as.
Date of Issuance

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR RESOURCES

Permit Conditions and Emission Limitations

THE MIRIAM HOSPITAL

APPROVAL NOs. 2027-2029

A. Emission Limitations

1. Sulfur Dioxide

All diesel fuel burned in each engine-generator set shall contain no more than 0.3 percent sulfur by weight.

2. Visible emissions from each engine-generator set shall not exceed 10% opacity except for a period or periods aggregating no more than three minutes in any one-hour. This visible emission limitation shall not apply during startup of an engine. Engine startup shall be defined as the first ten minutes of firing following the initiation of firing.

B. Operating Requirements

- 1. The maximum firing rate for each 1,502-HP engine-generator set shall not exceed 73.9 gallons per hour.
- 2. The maximum firing rate for the 2,151-HP engine-generator set shall not exceed 109.1 gallons per hour.
- 3. Each 1,502-HP engine/generator set shall not operate more than 500 hours in any consecutive 12-month period.
- 4. The 2,151-HP engine/generator set shall not operate more than 400 hours in any consecutive 12-month period.
- 5. Each engine-generator set shall be used only during emergencies or for maintenance or testing purposes. Emergency means an electric power outage due to a failure of the electrical grid, on-site disaster, local equipment failure, or public service emergencies such as flood, fire, or natural disaster. Emergency shall also mean periods during which ISO New England, or any successor Regional Transmission Organization, directs the implementation of operating procedures for voltage reductions, voluntary load curtailments by customers or automatic or manual load shedding within Rhode Island in response to unusually low frequency,

- equipment overload, capacity or energy deficiency, unacceptable voltage levels or other such emergency conditions.
- 6. Each engine-generator set shall not be operated in conjunction with any voluntary demand-reduction program or any other interruptible power supply arrangement with a utility, other market participant or system operator unless such program is implemented at the same time as ISO New England, or any successor Regional Transmission Organization, directs the implementation of operating procedures for voltage reductions, voluntary load curtailments by customers or automatic or manual load shedding within Rhode Island in response to unusually low frequency, equipment overload, capacity or energy deficiency, unacceptable voltage levels or other such emergency conditions.

C. Continuous Monitoring

1. Each engine-generator set shall be equipped with a non-resetable elapsed time meter to indicate, in cumulative hours, the elapsed engine operating time.

D. Fuel Oil Testing

- 1. Compliance with the diesel fuel sulfur limit may be determined based on a certification from the fuel supplier. Fuel supplier certifications shall include the following information:
 - a. The name of the fuel supplier;
 - b. The sulfur content of the fuel from which the shipment came or the shipment itself;
 - c. The location of the fuel when the sample was drawn for analysis to determine the sulfur content of the fuel, specifically including whether the fuel was sampled as delivered to The Miriam Hospital or whether the sample was drawn from fuel in storage at the fuel supplier's facility or another location;
 - d. The method used to determine the sulfur content of the fuel.
- 2. As an alternative to fuel supplier certification, the owner/operator may elect to sample the fuel prior to combustion. Sampling and analysis shall be conducted for the fuel in the initial tank(s) of fuel to be fired in each engine and after each new shipment of fuel is received. Samples shall be collected from the fuel tank immediately after the fuel tank is filled and before any fuel is combusted.

E. Record Keeping and Reporting

- 1. The owner/operator shall, on a monthly basis, no later than 5 days after the first of each month, determine and record the hours of operation and fuel use for each engine-generator set for the previous 12-month period.
- 2. The owner/operator shall notify the Office of Air Resources, in writing, whenever the hours of operation in any 12-month period exceed 500 hours for either 1,502-HP engine-generator set.
- 3. The owner/operator shall notify the Office of Air Resources, in writing, whenever the hours of operation in any 12-month period exceed 400 hours for the 2,151-HP engine-generator set.
- 4. The owner/operator shall notify the Office of Air Resources of any anticipated noncompliance with the terms of this permit or any other applicable air pollution control rules and regulations.
- 5. The owner/operator shall maintain copies of all fuel supplier certifications or fuel analyses and these copies shall be made accessible for review by the Office of Air Resources or its authorized representative and EPA. These records shall include a certified statement, signed by the owner/operator of the facility, that the records represent all of the fuel combusted at the facility.
- 6. The owner/operator shall notify the Office of Air Resources in writing of any planned physical or operational change to any equipment that would:
 - a. Change the representation of the facility in the application.
 - b. Alter the applicability of any state or federal air pollution rules or regulations.
 - c. Result in the violation of any terms or conditions of this permit.
 - d. Qualify as a modification under APC Regulation No. 9.

Such notification shall include:

- Information describing the nature of the change.
- Information describing the effect of the change on the emission of any air contaminant.
- The scheduled completion date of the planned change.

- Any such change shall be consistent with the appropriate regulation and have the prior approval of the Director.
- 7. The owner/operator shall notify the Office of Air Resources, in writing, of any noncompliance with the terms of this permit within 30 calendar days of becoming aware of such occurrence and supply the Director with the following information:
 - a. The name and location of the facility;
 - b. The subject source(s) that caused the noncompliance with the permit term;
 - c. The time and date of first observation of the incident of noncompliance;
 - d. The cause and expected duration of the incident of noncompliance;
 - e. The estimated rate of emissions (expressed in lbs/hr or lbs/day) during the incident and the operating data and calculations used in estimating the emission rate.
 - f. The proposed corrective actions and schedule to correct the conditions causing the incidence of noncompliance.
- 8. All records required as a condition of this approval must be made available to the Office of Air Resources or its representative upon request. These records must be maintained for a minimum of five years after the date of each record.

F. Other Permit Conditions

- 1. To the extent consistent with the requirements of this approval and applicable Federal and State laws, each engine-generator set shall be designed, constructed and operated in accordance with the representation of the equipment in the permit application.
- 2. Employees of the Office of Air Resources and its authorized representatives shall be allowed to enter the facility at all times for the purpose of inspecting any air pollution source, investigating any condition it believes may be causing air pollution or examining any records required to be maintained by the Office of Air Resources.
- 3. At all times, including periods of startup, shutdown and malfunction, the owner/operator shall, to the extent practicable, maintain and operate the engine-generator set in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable

operating and maintenance procedures are being used will be based on information available to the Office of Air Resources which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures and inspection of the source.

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